

Michael E. Nelson
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EDUCATION

Michigan State University, East Lansing, MI 2015 – 2017
M.A., Media and Information, Concentration in Media and Information Management

North Park University, Chicago, IL 2007 – 2011
B.A., History, Summa Cum Laude

PROFESSIONAL EXPERIENCE

School of Social Work, Michigan State University 2017 –
Michigan Stroke Transitions Trial (MISTT) Project Consultant

- Developing data analysis dashboard for integrating website sessions data from Google Analytics with patient and caregiver interviews and social workers' case notes exported from the Project's REDCap instance
- Documenting system with Sphinx Python library and training MISTT project researchers in the use of the system
- Writing unit tests to improve the resilience of the system

Matrix Center for Digital Humanities and Social Sciences 2017 –
Web Developer

- Developing WordPress theming for the Center's clients

Department of Media and Information, Michigan State University 2016
Graduate Research Assistant

- Programmatically collected citation data from Elsevier Scopus and Thomson Reuters Web of Knowledge
- Conducted bibliometric and citation analyses using Pajek and the networkx Python library

Department of Advertising and Public Relations, Michigan State University 2015 –
Project Consultant and Research Assistant

- Developed Qualtrics implementations of the Affect Misattribution Procedure (AMP) and the Taylor Aggression Paradigm as JavaScript applications using the QRT Engine reaction-time engine
- Administered the collection of self-report data with Qualtrics, psychophysiological data with BIOPAC and AcqKnowledge, and reaction-time and eye-tracking data with DirectRT and Tobii Pro Studio
- Cleaned data using the pandas Python library

College of Arts and Letters, Michigan State University 2015 – 2016
Web Accessibility/Usability Intern

- Remediated websites and courseware for accessibility and usability
- Wrote technical reports on accessibility for College sub-unit decision-makers

DRW College Prep High School, Chicago, IL 2015
Paraprofessional and Instructor

- Provided support and targeted teaching to students with IEPs

- Designed and implemented remedial English Language Arts courses

American Homeowner Preservation Capital Management, Chicago, IL 2012 – 2015
Litigation and Documentation Specialist and Senior Asset Manager

- Planned and implemented dispositions of subprime mortgages through short sale, short settlement, and foreclosure
- Wrote training documentation, and trained interns and new hires
- Managed transfers of collateral documents between the Company, servicers, counsel, and custodians

Faculty of English, Adam Mickiewicz University, Poznań, Poland 2011 – 2012
Visiting Fulbright Lecturer

- Designed and implemented bachelor's and master's degree courses in history and English
- Initiated exploratory committee on the prospect of starting a writing center

North Park University, Chicago, IL 2010
Peer Academic Advisor and Writing Advisor

- Assisted teaching a section of first-year rhetoric and composition
- Tutored other students in formal writing and in the use of library resources

GRANTS, FELLOWSHIPS, & AWARDS

Cultural Heritage Informatics Graduate Fellowship 2016 – 2017
 Cultural Heritage Informatics Initiative, Michigan State University

Research Experience for Master's Students Graduate Fellowship 2016
 School of Information, University of Michigan

Thomas F. Baldwin Endowed Fellowship 2016
 Department of Media and Information, Michigan State University

M.A. Merit Scholarship 2015 – 2016
 Department of Media and Information, Michigan State University

Fulbright English Teaching Assistantship to Poland 2011 – 2012
 Fulbright Program, U.S. Department of State

Zenos and Barbara Hawkinson Prize for Best Paper in History 2010
 Department of History, North Park University

Presidential Scholarship 2007 – 2011
 North Park University

PERSONAL & FELLOWSHIP-FUNDED PROJECTS

Exploring Heritage Representation in CIDOC-CRM (Cultural Heritage Informatics Initiative)

- Developing a React.js and Redux application for exploring the CIDOC-CRM ontology by querying SPARQL endpoints of institutions like the British Museum and Europeana

Measuring Purchase Intention and Consumer Socialization on Instagram (Independent)

- Developing a Universal Windows Platform (UWP) tablet application to simulate the Instagram user experience; will be used to measure (in conjunction with eye-tracking measures) patterns of user attention to product placement versus explicit advertising

The Future of Data-Related Publication (ICPSR and the University of Michigan iSchool)

- Gathered requirements (in shadowing and semi-structured interviews) to inform the design of a system to support improved bibliography comprehensiveness, usability, and ingestion processes at the Inter-university Consortium for Political and Social Research's (ICPSR)
- Modeled processes involved in maintaining ICPSR's bibliography of data-related publications in UML, in terms of actors, use cases, process inputs and outputs, and activities

The Changing Character of Digital Divides (The Quello Center, Michigan State University)

- Analyzed archival survey data for substantive shifts in responses about Internet usage (using SPSS 23.0)
- Analyzed survey instruments for methodological shifts in the study of Internet usage

CONFERENCE PAPERS, PRESENTATIONS, AND PUBLICATIONS

Eight conference papers in the areas of social media advertising, cultural adaptation in advertising, business process analysis, accessibility and instruction, and digital divides

PROFESSIONAL TRAINING

Udacity.com, Mountain View, CA
Front-End Web Developer Nanodegree

2015

KEY PROFESSIONAL SKILLS

Data analysis

- Network analysis in Pajek and the networkx Python library
- Text data analysis with the scikit-learn and gensim Python libraries

Database design & development

- Relational data modeling in UML
- Normalization and model implementation in PostgreSQL

Web development

- Designing, developing, and securing server-side systems using the Flask Python web framework, and implementing data persistence using the SQLAlchemy ORM library
- Building client-side systems with the Angular.js and Prototype.js JavaScript frameworks

- Deploying systems to Salesforce's platform-as-a-service (PaaS) Heroku

Communication

- Writing technical and business documentation for training, knowledge management, and reports for decision-makers
- Conducting training on systems and processes for audiences including interns, new hires, and professional researchers

KEY ACCOMPLISHMENTS

- Designed and implemented JavaScript application for measuring aggression on Qualtrics, data from which are currently being used by a Michigan State research team in pursuit of a NIH grant
- Led development of a proof-of-concept web application for supporting the data analysis of the interdisciplinary team of researchers on the Michigan Stroke Transitions Trial (MISTT) project, and was subsequently asked by the team to consult on the project for further development